

Mickey 5-F SEP

SWNE Sec. 5-T6N-R67W

Facility ID: 486166

Remediation Project #: 35694

Remediation Progress Report

June 2024 through October 2024

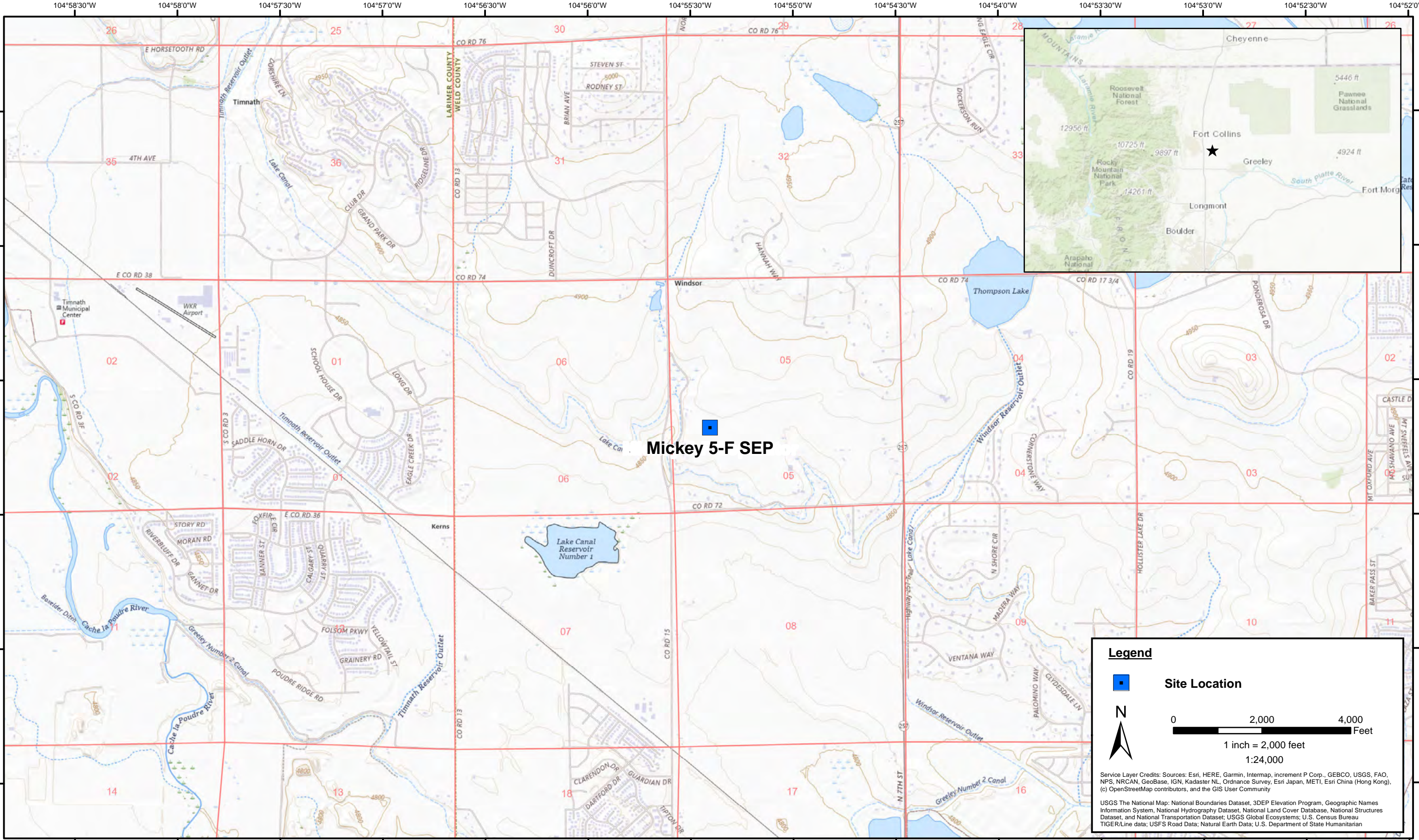
Prepared by Tasman, Inc.



On behalf of Extraction Oil & Gas, Inc.



FIGURES



DATE:	May 2024
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Reed



Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

Extraction Oil & Gas, Inc.
Mickey 5-F SEP
SWNE Sec. 5-T6N-R67W
Weld County, Colorado

Site Location Map

Figure
1





DATE: August 26, 2024

DESIGNED BY: S. Vogt

DRAWN BY: L. Molson



TASMAN

Tasman, Inc.
6855 W119th Ave.
Broomfield, CO 80020

Extraction Oil & Gas, Inc.
Mickey 5-F SEP
SWNE Sec. 5-T6N-R67W
Weld County, Colorado

Soil Boring Assessment
(04/04/2024)


Figure
3

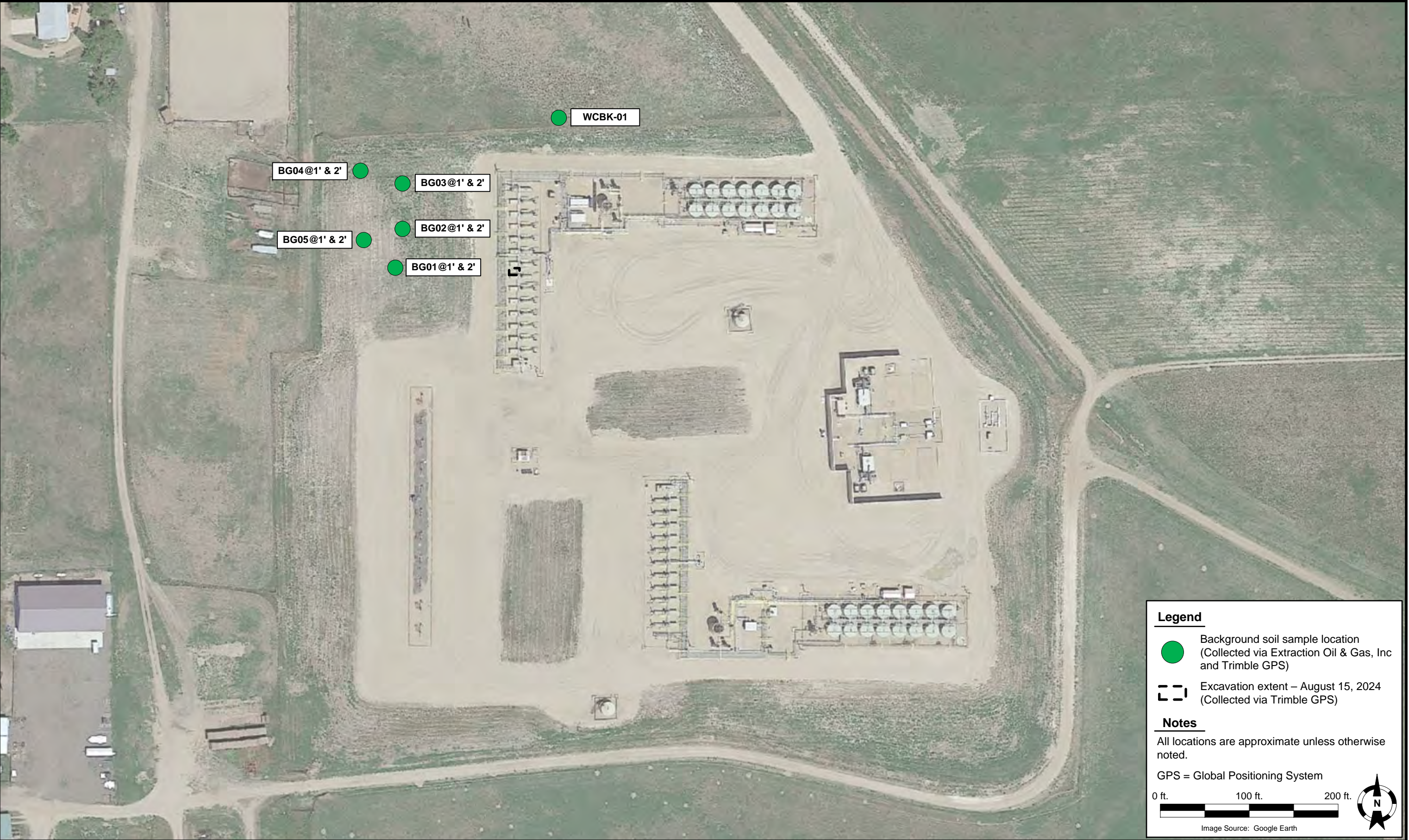




DATE: August 26, 2024	 Tasman, Inc. 6855 W119th Ave. Broomfield, CO 80020	Extraction Oil & Gas, Inc. Mickey 5-F SEP SWNE Sec. 5-T6N-R67W Weld County, Colorado	Excavation Soil Sample Location Map (08/15/2024)	Figure 4B
DESIGNED BY: S. Vogt				
DRAWN BY: L. Molson				



DATE: August 26, 2024	 Tasman, Inc. 6855 W119th Ave. Broomfield, CO 80020	Extraction Oil & Gas, Inc. Mickey 5-F SEP SWNE Sec. 5-T6N-R67W Weld County, Colorado	Excavation Soil Sample Location Map (10/21/2024)	Figure 4C
DESIGNED BY: S. Vogt				
DRAWN BY: T. Copple				



DATE: August 26, 2024	 TASMAN Tasman, Inc. 6855 W119th Ave. Broomfield, CO 80020	Extraction Oil & Gas, Inc. Mickey 5-F SEP SWNE Sec. 5-T6N-R67W Weld County, Colorado	Background Soil Sample Location Map (02/28/2024 – 06/21/2024)	Figure 5
DESIGNED BY: S. Vogt				
DRAWN BY: L. Molson				

TABLES

MATERIAL LEFT IN PLACE

TABLE 1
MICKEY 5-F SEP
SOIL SAMPLE LOCATIONS LEFT IN PLACE
EXTRACTION OIL & GAS, INC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
DEL-V01@7'	7'	04/04/2024	0.0	40.513695	-104.923504	1.1	Y
DEL-S01@1'	1'	04/04/2024	0.2	40.513624	-104.923430	1	Y
DEL-S01@5'	5'	04/04/2024	0.0	40.513624	-104.923430	1	Y
DEL-W01@1'	1'	04/04/2024	0.1	40.513681	-104.923596	1	Y
DEL-W01@5'	5'	04/04/2024	0.1	40.513681	-104.923596	1	Y
DEL-E01@1'	1'	04/04/2024	0.2	40.513670	-104.923396	1.1	Y
DEL-E01@5'	5'	04/04/2024	0.2	40.513670	-104.923396	1.1	Y
DEL-N01@1'	1'	04/04/2024	0.1	40.513737	-104.923459	1.1	Y
DEL-N01@5'	5'	04/04/2024	0.0	40.513737	-104.923459	1.1	Y
SEP-B02@5'	5'	10/21/2024	0.0	40.513680	-104.923501	1.1	Y
SEP-B03@5'	5'	10/21/2024	0.0	40.513680	-104.923457	1.1	Y
SEP-E02@4'	4'	10/21/2024	0.0	40.513700	-104.923499	1.3	Y
SEP-N02@4'	4'	10/21/2024	0.0	40.513701	-104.923448	1.2	Y
SEP-N03@4'	4'	10/21/2024	0.0	40.513658	-104.923501	1.1	Y
SEP-S03@4'	4'	10/21/2024	0.0	40.513660	-104.923459	1.2	Y
SEP-S04@4'	4'	10/21/2024	0.0	40.513684	-104.923417	1.2	Y
SEP-W02@4'	4'	10/21/2024	0.0	40.513679	-104.923537	1.1	Y
BACKGROUND							
WCBK-01	0-6"	02/25/2024	-	40.514166	-104.923323	-	Y
BG01@1'	1'	06/21/2024	0.1	40.513706	-104.923987	1	Y
BG01@2'	2'	06/21/2024	0.5	40.513706	-104.923987	1	Y
BG02@1'	1'	06/21/2024	0.7	40.513826	-104.923955	0.9	Y
BG02@2'	2'	06/21/2024	0.1	40.513826	-104.923955	0.9	Y
BG03@1'	1'	06/21/2024	0.3	40.513963	-104.923957	1	Y
BG03@2'	2'	06/21/2024	0.3	40.513963	-104.923957	1	Y
BG04@1'	1'	06/21/2024	0.2	40.514003	-104.924127	0.9	Y
BG04@2'	2'	06/21/2024	0.1	40.514003	-104.924127	0.9	Y
BG05@1'	1'	06/21/2024	0.0	40.513793	-104.924112	0.9	Y
BG05@2'	2'	06/21/2024	0.3	40.513793	-104.924112	0.9	Y

Notes:

PID = Photoionization Detector

ppm = parts per million

GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

TABLE 1
MICKEY 5-F SEP
SOIL SAMPLE LOCATIONS LEFT IN PLACE
EXTRACTION OIL & GAS, INC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
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2/25/2024 [date] = Data collected by Client

TABLE 2
MICKEY 5-F SEP
SOIL ANALYTICAL DATA LEFT IN PLACE - VOCs
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27
DEL-V01@7'	7'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-S01@1'	1'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-S01@5'	5'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-W01@1'	1'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-W01@5'	5'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-E01@1'	1'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-E01@5'	5'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-N01@1'	1'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-N01@5'	5'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-B02@5'	5'	10/21/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-B03@5'	5'	10/21/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-E02@4'	4'	10/21/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-N02@4'	4'	10/21/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-N03@4'	4'	10/21/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-S03@4'	4'	10/21/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-S04@4'	4'	10/21/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-W02@4'	4'	10/21/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

TABLE 2
MICKEY 5-F SEP
SOIL ANALYTICAL DATA LEFT IN PLACE - VOCs
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

2/25/2024 [date] = Data collected by Client

TABLE 3
MICKEY 5-F SEP
SOIL ANALYTICAL DATA LEFT IN PLACE - PAHs
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
DEL-V01@7'	7'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-S01@1'	1'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-S01@5'	5'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-W01@1'	1'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-W01@5'	5'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-E01@1'	1'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-E01@5'	5'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-N01@1'	1'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-N01@5'	5'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-B02@5'	5'	10/21/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-B03@5'	5'	10/21/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-E02@4'	4'	10/21/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-N02@4'	4'	10/21/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-N03@4'	4'	10/21/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-S03@4'	4'	10/21/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-S04@4'	4'	10/21/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-W02@4'	4'	10/21/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

TABLE 3
MICKEY 5-F SEP
SOIL ANALYTICAL DATA LEFT IN PLACE - PAHs
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenz(a,h)Anthracene

1,2,3-CD = Indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

2/25/2024 [date] = Data collected by Client

TABLE 4
MICKEY 5-F SEP
SOIL ANALYTICAL DATA LEFT IN PLACE - METALS
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Metals in Soils - GSSL ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
WC-01	0-6"	02/25/2024	3.56*	101*	0.218	<0.30	4.70	5.35	3.59	<0.260	<0.0200	41.5
BACKGROUND												
WCBK-01	0-6"	02/25/2024	3.52	111	0.214	<0.30	6.01	7.37	6.77	1.10	0.0400	24.7
Average Background @6" x1.25 (SC)			4.40	138	0.268	-	7.51	9.21	8.46	1.38	0.0500	30.8

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

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(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = milligrams per kilogram

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations

Average background concentration x1.25

Italics = Laboratory minimum detection limit exceeds the ECMC Table 915-1 Standard

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific 1.25x background multiplier levels

2/25/2024 [date] = Data collected by Client

TABLE 4
MICKEY 5-F SEP



SOIL ANALYTICAL DATA LEFT IN PLACE - SOIL RECLAMATION
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
DEL-V01@7'	7'	04/04/2024	-	3.26	-	-
DEL-S01@1'	1'	04/04/2024	-	0.606	-	-
DEL-S01@5'	5'	04/04/2024	-	0.815	-	-
DEL-W01@1'	1'	04/04/2024	-	1.92	-	-
DEL-W01@5'	5'	04/04/2024	-	1.31	-	-
DEL-E01@1'	1'	04/04/2024	-	0.227	-	-
DEL-E01@5'	5'	04/04/2024	-	0.381	-	-
DEL-N01@1'	1'	04/04/2024	-	0.0851	-	-
DEL-N01@5'	5'	04/04/2024	-	0.783	-	-
SEP-B02@5'	5'	10/21/2024	-	2.98	-	-
SEP-B03@5'	5'	10/21/2024	-	4.88	-	-
SEP-E02@4'	4'	10/21/2024	-	4.57	-	-
SEP-N02@4'	4'	10/21/2024	-	1.16	-	-
SEP-N03@4'	4'	10/21/2024	-	5.79	-	-
SEP-S03@4'	4'	10/21/2024	-	3.16	-	-
SEP-S04@4'	4'	10/21/2024	-	3.79	-	-
SEP-W02@4'	4'	10/21/2024	-	0.291	-	-
BACKGROUND						
WCBK-01	0-6"	02/25/2024	8.90	0.116	0.235	<2.00
BG01@1'	1'	06/21/2024	-	1.26	-	-
BG01@2'	2'	06/21/2024	-	2.02	-	-
BG02@1'	1'	06/21/2024	-	1.34	-	-
BG02@2'	2'	06/21/2024	-	0.856	-	-
BG03@1'	1'	06/21/2024	-	0.724	-	-
BG03@2'	2'	06/21/2024	-	0.546	-	-
BG04@1'	1'	06/21/2024	-	1.19	-	-
BG04@2'	2'	06/21/2024	-	0.903	-	-
BG05@1'	1'	06/21/2024	-	0.913	-	-
BG05@2'	2'	06/21/2024	-	0.558	-	-

TABLE 4
MICKEY 5-F SEP



SOIL ANALYTICAL DATA LEFT IN PLACE - SOIL RECLAMATION
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC Soil Suitability for Reclamation ⁽¹⁾			6 - 8.3	< 6	< 4	2
Max Background @ 6"-2' (SC)			8.90	2.02	0.235	-

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Soil Suitability for Reclamation Concentrations

Max background concentration

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations

2/25/2024 [date] = Data collected by Client

TABLES

IMPACTED MATERIAL REMOVED

TABLE 1
MICKEY 5-F SEP
SOIL SAMPLE LOCATIONS REMOVED
EXTRACTION OIL & GAS, INC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
WC-01	0-6"	02/25/2024	-	40.513667	-104.923515	-	Y
DEL-V01@1'	1'	04/04/2024	13.9	40.513695	-104.923504	1.1	Y
DEL-V01@5'	5'	04/04/2024	0.2	40.513695	-104.923504	1.1	Y
DEL-E01@1'	1'	04/04/2024	0.2	40.513670	-104.923396	1.1	Y
SEP-B01@2'	2'	06/11/2024	2.1	40.513694	-104.923509	1.1	Y
SEP-N01@1'	1'	06/11/2024	1.1	40.513692	-104.923491	1	Y
SEP-S01@1'	1'	06/11/2024	1.9	40.513699	-104.923508	1	Y
SEP-E01@1'	1'	06/11/2024	2.5	40.513687	-104.923510	1	Y
SEP-W01@1'	1'	06/11/2024	4.1	40.513690	-104.923523	1	Y
SEP-S02@1'	1'	08/15/2024	0.1	40.513682	-104.923512	-	Y
BACKGROUND							
WCBK-01	0-6"	02/25/2024	-	40.514166	-104.923323	-	Y
BG01@1'	1'	06/21/2024	0.1	40.513706	-104.923987	1	Y
BG01@2'	2'	06/21/2024	0.5	40.513706	-104.923987	1	Y
BG02@1'	1'	06/21/2024	0.7	40.513826	-104.923955	0.9	Y
BG02@2'	2'	06/21/2024	0.1	40.513826	-104.923955	0.9	Y
BG03@1'	1'	06/21/2024	0.3	40.513963	-104.923957	1	Y
BG03@2'	2'	06/21/2024	0.3	40.513963	-104.923957	1	Y
BG04@1'	1'	06/21/2024	0.2	40.514003	-104.924127	0.9	Y
BG04@2'	2'	06/21/2024	0.1	40.514003	-104.924127	0.9	Y
BG05@1'	1'	06/21/2024	0.0	40.513793	-104.924112	0.9	Y
BG05@2'	2'	06/21/2024	0.3	40.513793	-104.924112	0.9	Y

Notes:

PID = Photoionization Detector

ppm = parts per million

GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

2/25/2024 [date] = Data collected by Client

TABLE 2
MICKEY 5-F SEP
SOIL ANALYTICAL DATA REMOVED - VOCs
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27
WC-01	0-6"	02/25/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-V01@1'	1'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-V01@5'	5'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
DEL-E01@1'	1'	04/04/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-B01@2'	2'	06/11/2024	<0.000467	<0.00130	<0.000737	<0.000880	<0.00408	<0.0217	<1.61	2.72	<0.00158	<0.00200
SEP-N01@1'	1'	06/11/2024	<0.000467	<0.00130	<0.000737	<0.000880	<0.00408	0.0277	<1.61	4.10	<0.00158	<0.00200
SEP-S01@1'	1'	06/11/2024	<0.000467	<0.00130	<0.000737	<0.000880	<0.00408	0.0262	<1.61	4.22	<0.00158	<0.00200
SEP-E01@1'	1'	06/11/2024	<0.000467	<0.00130	<0.000737	<0.000880	<0.00408	<0.0217	<1.61	1.11	<0.00158	<0.00200
SEP-W01@1'	1'	06/11/2024	<0.000467	<0.00130	<0.000737	<0.000880	<0.00408	0.0385	<1.61	0.830	<0.00158	<0.00200
SEP-S02@1'	1'	08/15/2024	<0.00200	<0.00500	<0.00500	<0.0100	<0.00408	<0.500	<50.0	<50.0	<0.00500	<0.00500

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

2/25/2024 [date] = Data collected by Client

TABLE 3
MICKEY 5-F SEP
SOIL ANALYTICAL DATA REMOVED - PAHs
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
WC-01	0-6"	02/25/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-V01@1'	1'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00573	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-V01@5'	5'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DEL-E01@1'	1'	04/04/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-B01@2'	2'	06/11/2024	<0.00209	<0.00230	<0.00173	<0.00153	<0.00215	<0.00179	<0.00232	<0.00172	<0.00227	<0.00205	<0.00181	<0.00449	<0.00427	<0.00200
SEP-N01@1'	1'	06/11/2024	<0.00209	<0.00230	<0.00173	<0.00153	<0.00215	<0.00179	<0.00232	<0.00172	<0.00227	<0.00205	<0.00181	<0.00449	<0.00427	<0.00200
SEP-S01@1'	1'	06/11/2024	<0.00209	<0.00230	<0.00173	<0.00153	<0.00215	<0.00179	<0.00232	<0.00172	<0.00227	<0.00205	<0.00181	<0.00449	<0.00427	<0.00200
SEP-E01@1'	1'	06/11/2024	<0.00209	<0.00230	<0.00173	<0.00153	<0.00215	<0.00179	<0.00232	<0.00172	<0.00227	<0.00205	<0.00181	<0.00449	<0.00427	<0.00200
SEP-W01@1'	1'	06/11/2024	<0.00209	<0.00230	<0.00173	<0.00153	<0.00215	<0.00179	<0.00232	<0.00172	<0.00227	<0.00205	<0.00181	<0.00449	<0.00427	<0.00200
SEP-S02@1'	1'	08/15/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenzo(a,h)Anthracene

1,2,3-CD = Indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

2/25/2024 [date] = Data collected by Client

TABLE 4
MICKEY 5-F SEP



SOIL ANALYTICAL DATA REMOVED - SOIL RECLAMATION
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
WC-01	0-6"	02/25/2024	7.11	26.6	0.0393	<2.00
DEL-V01@1'	1'	04/04/2024	-	10.2	-	-
DEL-V01@5'	5'	04/04/2024	-	2.38	-	-
DEL-E01@1'	1'	04/04/2024	-	0.227	-	-
SEP-B01@2'	2'	06/11/2024	-	2.05	-	-
SEP-N01@1'	1'	06/11/2024	-	0.892	-	-
SEP-S01@1'	1'	06/11/2024	-	6.15	-	-
SEP-E01@1'	1'	06/11/2024	-	1.03	-	-
SEP-W01@1'	1'	06/11/2024	-	1.87	-	-
SEP-S02@1'	1'	08/15/2024	-	1.73	-	-
BACKGROUND						
WCBK-01	0-6"	02/25/2024	8.90	0.116	0.235	<2.00
BG01@1'	1'	06/21/2024	-	1.26	-	-
BG01@2'	2'	06/21/2024	-	2.02	-	-
BG02@1'	1'	06/21/2024	-	1.34	-	-
BG02@2'	2'	06/21/2024	-	0.856	-	-
BG03@1'	1'	06/21/2024	-	0.724	-	-
BG03@2'	2'	06/21/2024	-	0.546	-	-
BG04@1'	1'	06/21/2024	-	1.19	-	-
BG04@2'	2'	06/21/2024	-	0.903	-	-
BG05@1'	1'	06/21/2024	-	0.913	-	-
BG05@2'	2'	06/21/2024	-	0.558	-	-
Max Background @ 6"-2' (SC)			8.90	2.02	0.235	-

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Soil Suitability for Reclamation Concentrations

Max background concentration

TABLE 4
MICKEY 5-F SEP



SOIL ANALYTICAL DATA REMOVED - SOIL RECLAMATION
EXTRACTION OIL & GAS, INC

Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC Soil Suitability for Reclamation ⁽¹⁾			6 - 8.3	< 6	< 4	2

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations

2/25/2024 [date] = Data collected by Client

ATTACHMENT A
FIELD NOTES AND PHOTO LOG

Civitas Decommissioning Form

SEPARATOR EXCAVATION





SITE NAME: Mickey 5-F Separator								DATE: 6/11/2024	REM. PROJECT #: 486166	WEATHER: Sunny, 70(F)	
SITE DIRECTIONS: CR 15 & CR 74, S 1670FT ON CR 15, SE 1000FT ON OLD CR 15, E 560 FT, SE/ APX 900FT INTO								CLIENT: Extraction Oil & Gas, Inc.			
LEGALS AND LAT/LONG: 40.513681, -104.923404								TASMAN PERSONNEL: Sean Clarke, Conor Lovell, Angela Kirylo			
SOIL TYPES: SC - clayey sand								SURFACE GRADIENT: Northeast			
SURROUNDING LAND USE: Rangeland								CROP: N/A			
SOIL SAMPLING								FACILITY INFRASTRUCTURE			
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo? (Y/N)	USCS	Lab (Y/N)	EQUIPMENT	Quantity		
								Above Ground Storage Tank (AST)			
6/11/2024 10:24	SEP-B01@2'	2.1	No Staining	No Odor	Y	SC	Y	Produced Water Vessel (PWV)			
6/11/2024 10:26	SEP-N01@1'	1.1	No Staining	No Odor	Y	SC	Y	Separator (SEP)	1		
6/11/2024 10:28	SEP-S01@1'	1.9	No Staining	No Odor	Y	SC	Y	Emission Control Device (ECD)			
6/11/2024 10:30	SEP-E01@1'	2.5	No Staining	No Odor	Y	SC	Y	Dump Line (DL)			
6/11/2024 10:32	SEP-W01@1'	4.1	No Staining	No Odor	Y	SC	Y	Wellhead (WH)			
6/21/2024 11:00	BG01@1'	0.1	No Staining	No Odor	Y	SC	Y	Flowline (FL)			
6/21/2024 11:05	BG01@2'	0.5	No Staining	No Odor	Y	SC	Y	FL Method of Closure			
6/21/2024 11:10	BG02@1'	0.7	No Staining	No Odor	Y	SC	Y	FL Footage Removed			
6/21/2024 11:15	BG02@2'	0.1	No Staining	No Odor	Y	SC	Y	Footaged Abandoned in Place			
6/21/2024 11:20	BG03@1'	0.3	No Staining	No Odor	Y	SC	Y	Other:			
6/21/2024 11:25	BG03@2'	0.3	No Staining	No Odor	Y	SC	Y	Soil Loads Removed			
6/21/2024 11:30	BG04@1'	0.2	No Staining	No Odor	Y	SC	Y	IMPACTED SOIL IDENTIFIED?			
6/21/2024 11:35	BG04@2'	0.1	No Staining	No Odor	Y	SC	Y	ESTIMATED VOLUME OF IMPACTS:			
6/21/2024 11:40	BG05@1'	0.0	No Staining	No Odor	Y	SC	Y	Date	Number	CY	
6/21/2024 11:45	BG05@2'	0.3	No Staining	No Odor	Y	SC	Y				
8/15/2024 09:50	SEP-S02@1'	0.1	No Staining	No Odor	Y	SC	Y				
10/21/2024 11:00	SEP-B02@5'	0.0	No Staining	No Odor	Y	CL	Y				
10/21/2024 11:02	SEP-B03@5'	0.0	No Staining	No Odor	Y	CL	Y				
10/21/2024 11:04	SEP-N02@4'	0.0	No Staining	No Odor	Y	CL	Y	Total Removed	0	0	
10/21/2024 11:06	SEP-N03@4'	0.0	No Staining	No Odor	Y	CL	Y	Disposal Facility:			
10/21/2024 11:08	SEP-S03@4'	0.0	No Staining	No Odor	Y	CL	Y	Groundwater Recovery			
10/21/2024 11:10	SEP-S04@4'	0.0	No Staining	No Odor	Y	CL	Y	DATE GW ENCOUNTERED:	DEPTH:		
10/21/2024 11:12	SEP-E02@4'	0.0	No Staining	No Odor	Y	CL	Y	GROUNDWATER IN CONTACT WITH IMPACTED SOIL?			
10/21/2024 11:14	SEP-W02@4'	0.0	No Staining	No Odor	Y	CL	Y				
								LNAPL OR SHEEN OBSERVED ON GW?			
GROUNDWATER SAMPLING								Date	BBLs		
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?					
								Total Removed	0		
								Disposal Facility:			


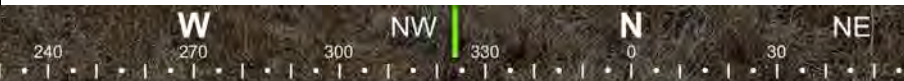


							
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:		Volume:	Contents:	Material:		Volume:	Contents:
Notes/Conditions: Excavation location.				Notes/Conditions: Excavation overview.			

Photographic Log

							
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Soil sampling locations.				Notes/Conditions: Soil sampling locations.			

							
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Background soil samples.				Notes/Conditions: Background soil sample location.			

					
					
Equipment ID:		Equipment Type:		Equipment ID:	
Material:		Volume:		Equipment Type:	
Notes/Conditions: Background soil sample location.			Notes/Conditions: Background soil sample location.		

					
15°N (T) ● 40°30'50"N, 104°55'26"W ±16ft ▲ 4874ft			324°NW (T) ● 40°30'49"N, 104°55'26"W ±16ft ▲ 4875ft		
					
Equipment ID:		Equipment Type:		Equipment ID:	
Material:		Volume:		Equipment Type:	
Contents:			Material:		
Notes/Conditions: Background soil sample location.			Notes/Conditions: Background soil sample location.		

							
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Soil sampling location.				Notes/Conditions: Soil sampling locations.			

							
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:		Volume:		Material:		Volume:	
Contents:				Contents:			
Notes/Conditions: Soil sampling locations.				Notes/Conditions:			